

C/CAG

CITY/COUNTY ASSOCIATION OF GOVERNMENTS OF SAN MATEO COUNTY

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Millbrae • Pacifica • Portola Valley • Redwood City • San Bruno • San Carlos • San Mateo • San Mateo County • South San Francisco • Woodside*

Thursday, August 18, 2011

Time: 3:00 to 5:00 p.m.

Location: 555 County Center, 5th Floor, Redwood City, California

Resource Management and Climate Protection Committee (RMCP)

Meeting Notice and Agenda

1. Introductions
2. Public comment
3. Approval of Minutes from June 2011 (Kim Springer) Action
4. Review and Discussion of Proposed Change to Date and/or Time for Future RMCP Meetings
(Kim Springer) Direction
5. Update on 2010-12 San Mateo County Energy Watch and Review of City Specific Energy
Report Card for Posting on the San Mateo County Energy Watch Website.
(Susan Wright) Direction
6. Update on BAAQMD Grant - Climate Action Plan Template Project
(Kim Springer) Information
7. Review of a Draft Outline for San Mateo County Energy Strategy Update, Final Sections.
(Kim Springer) Direction
8. Set Next Meeting Date (tentative: TBD)
9. Committee Updates

PUBLIC NOTICING: All notices of C/CAG Board and Committee meetings will be posted at San Mateo County Transit District Office, 1250 San Carlos Ave., San Carlos, CA.

[Map to 555 County Center, Redwood City](#) (find the “+” in the middle of the page)

Resource Management and Climate Protection Task Force

Minutes from the 5-19-11 Meeting

Next meeting: June 16, 2011, 3-5pm

County offices, 555 County Center, 5th Floor, Redwood City

In attendance:

Noelle Bell, Ecology Action

Jim Gogan, PG&E

Pedro Gonzalez, South San Francisco City Council*

Deborah Gordon, Committee Chair, Woodside Town Council*

Kathy Lavezzo, PG&E (3:35)

Ryan Mack, PG&E

Barbara Pierce, Redwood City Council* (3:15)

Shilpa Sankaran, ZETA Zero Energy Communities

Kim Springer, San Mateo County RecycleWorks (staff)

Juda Tolmasoff, Legislative Aide, Supervisor Groom's Office (3:15)

Susan Wright, San Mateo County RecycleWorks (staff)

Not in attendance:

Kari Binley, Sustainable San Mateo County

Bob Cormia, Sustainable Silicon Valley

Maryann Moise Derwin, Committee Vice Chair, Portola Valley Town Council*

Carole Groom, San Mateo County Board of Supervisors*

Jorge Jaramillo, San Mateo County Hispanic Chamber of Commerce

Richard Napier, C/CAG

Sepi Richardson, Brisbane City Council (attempted by phone)*

Nicole Sandkulla, BAWSCA

Eric Sevim, A+ Japanese Auto Repair

Lisa Wan, San Mateo County RecycleWorks (staff)

*=Voting member

1) Introductions: Each attendee introduced themselves and their organization.

2) Public Comment: There were no public comments.

3) Approval of Minutes: Approval of the February 17, 2011 minutes was postponed due to lack of quorum.

4) Presentation: Zero Net Energy Buildings (Shilpa Sankaran): Shilpa Sankaran of ZETA Zero Net Energy Communities explained the concept of zero net energy buildings. She described how these structures are built in a factory in Sacramento, trucked to the building site and then assembled, keeping the cost per square foot at a price affordable to the mass market. Shilpa's presentation included examples of single family homes, multifamily dwellings, and commercial structures; future plans include whole communities. Shilpa is consulting with the CPUC to promote zero net energy construction. Kim Springer suggested finding a way to have a zero net energy home built in the county to use as part of a demonstration program for the public. The committee

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discussed the possibility of taking a field trip to visit the factory as part of a future meeting. Shilpa's Power Point presentation will be provided to RCMP committee members.

5) Update on 2010 San Mateo Energy Watch (Susan Wright): Susan Wright is the new program coordinator. Susan reported that she is developing a new tracking system for projects to make it easier for team members from partner organizations to know the status of projects. Notable achievements of the program recently are: running many nonprofits, including congregations, through the Direct Install program; installing vending misers in many city facilities (these small projects collectively will yield a lot of energy savings, plus they are a great "foot in the door" for future projects); and making progress on several CRI (custom retrofit incentive) projects for the County of San Mateo, including boiler replacement, desktop virtualization, and HVAC controls. May will be an especially strong month, and is expected to close three times over the monthly goal. Susan asked committee members to let her know if they have any requests for how information about Energy Watch projects is presented to the committee (by city, type of project, aggregated energy savings, etc.).

Kim Springer reported that we have benchmarked buildings in all but six cities now. Cities will be using Portfolio Manager to track their energy use over time and compare energy use of their buildings to the national average by building type. A class will be held on June 1, 2011, for the cities to learn how to use the Portfolio Manager program in the future, now that their sites have been benchmarked.

The program is on track to meet its kW and kWh savings goals, but is seeking more projects to bring its Therm saving goal in alignment with expectations.

6) Update on BAAQMD Grant-Climate Action Plan Template Project

(Kim Springer): As an update to the presentation on the CAP grant at the February 2011 meeting, Kim Springer explained that a \$125,000 grant was secured from PG&E for this project. This was added to the \$50,000 grant from BAAQMD (Bay Area Air Quality Management District) that originally got the project started. Kim Springer explained the project's two parts:

- 1) developing a *Climate Action Plan (CAP) template* document that serves as the CAP report for the cities, and that includes a list of about 40 measures cities can take to reduce their greenhouse gas (GHG) emissions.
- 2) building a *tracking tool* for member cities to track GHG emission-related resources (energy, water, fuel, etc.). The tool will allow cities to take the baseline for each segment and show "business as usual" vs. outcomes based on implementing various measures. Cities will then use the tool to input data over time to show their progress. Multiple stakeholders within each city will be able to input the data, making the product flexible for the cities.

Kim reported that he's in process of developing the RFP for the tool development. The goal is to have the tool developed and have two cities use it to create their CAP by the end of the year.

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7) Review of Draft Outline for San Mateo County Energy Strategy Update (Kim Springer):

Kim Springer explained that the update is designed to be an addendum to the original report to explain what has changed and progress that has been made since the original report was issued. Kim walked the committee through the outline of the update to get feedback. This included the following suggestions and comments:

- Move the “awareness change” information (explaining that the world is different) to the beginning of the update.
- PG&E is now able to provide more granular data, allowing cities to know what sectors are using the most energy so they can more effectively target their outreach efforts. Data in the update provided by three organizations needs to be consistent.
- The update can mention that PG&E is able to track appliance-level data with Smart Meters.
- As cities move toward having Smart Meters for water, they should consider having the same data collection units handle both energy and water use.
- The committee discussed the idea of adding transportation to this report. It was decided that this document should be limited to updates on the topics it originally covered. After this update is finished, the committee can move on to address a report covering broader GHG emission topics. Initial steps would be having a joint meeting with C/CAG’s CMEQ (Congestion Management and Environmental Quality) committee.
- Topics for discussion at a future meeting:
 - Should the update include a deadline for reducing energy use? If so, what should that deadline be?
 - Kim Springer will work with PG&E to put together a “gas transmission dialogue” to encourage more two-way communication and collaboration between PG&E and elected officials and staff. The meeting would be hosted by RMCP, PG&E, and C/CAG. The format may be similar to PG&E’s very effective “open house” gatherings that educate customers about hydrostatic testing of pipes. The location of the gathering should be in the northern part of the county.
 - The committee didn’t get all the way through the outline; this will be completed at the next RMCP meeting.

8) Set Next Meeting Date: The next meeting will be on June 16, 2011, the regularly scheduled, third Thursday and at the usual location at 555 County Center, Redwood City. Since RMCP meetings fall at the same time as TAC (Technical Advisory Committee) meetings, Richard Napier is rarely able to come. The committee discussed moving the regular meeting date starting in September. Kim Springer will send out a Doodle survey to determine the best option.

9) Committee Updates

There were no committee updates.

C/CAG AGENDA REPORT

Date: August 18, 2011
To: Resource Management and Climate Protection Committee
From: Kim Springer, County Staff to C/CAG
Subject: Review and Discussion of Proposed Change to Date and/or Time for Future RMCP Meetings.
(For further information contact Kim Springer at 599-1412)

RECOMMENDATION

Review and discuss proposed change to date and/or time for future RMCP meetings.

FISCAL IMPACT

None

BACKGROUND/DISCUSSION

At the May 2011 RMCP meeting, there was a suggestion from staff that the members of the committee consider moving the date and/or time of the meeting to eliminate the overlap of the C/CAG CMP TAC committee and the RMCP committee. They meet at the same week/day of each month at the same time.

Staff decided to poll the elected official members of the committee first, to see what other day/week of the month they might be available. The results of that poll is provided as an attachment to this staff report.

Staff recommends that the committee review the results of poll and suggest next steps to establishing a new meeting day, and perhaps time of day for future RMCP committee meeting.

ATTACHMENT

RMCP Meeting Date Change Poll Results

	Poll For New RMCP Committee Meeting Day - Starting September							
	WEEK DAY	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	First		yes BP yes MMD	yes MMD	yes MMD	yes BP	yes MMD	
	Second		maybe MMD	yes BP		C/CAG Board	yes MMD	
	Third			NPDES TAC	yes MMD	CMP TAC	yes MMD	
	Fourth		CMEQ	yes BP		yes DG		
	NOTE: Please mark the cell that represent the days that you ARE available from 3-5 p.m. starting in September.							

C/CAG AGENDA REPORT

Date: August 18, 2011
To: Resource Management and Climate Protection Committee
From: Susan Wright, County Staff to C/CAG
Subject: Update on 2010-12 San Mateo County Energy Watch and Review of City Specific Energy Report Card for Posting on the San Mateo County Energy Watch Website.

(For further information contact Kim Springer at 599-1412)

RECOMMENDATION

Receive an informational update on the San Mateo County Energy Watch (SMCEW), Local Government Partnership (LGP) with Pacific Gas and Electric Company (PG&E) and review and provide feedback on city specific energy report cards for posting on the SMCEW website.

FISCAL IMPACT

All SMCEW program staff costs and expenses are paid for by funding under the C/CAG – PG&E LGP agreement.

BACKGROUND/DISCUSSION

The SMCEW partnership with PG&E began on January 1, 2009 under a bridge period contract per the California Public Utilities Commission (CPUC). Since that time, the CPUC, through a number of decisions, decided to hold the 2009 calendar year as a stand-alone bridge funded period and established a new, three-year program cycle from January 1, 2010 through December 31, 2012.

SMCEW 2010-2012 Program Update

Program Sectors:

In the new program cycle, the SMCEW has continued to accomplish energy savings in a variety of cities in San Mateo County in both its municipal, non-profit and commercial program sectors. As intentionally planned, a low-to-moderate-income (MIDI) residential sector program under the SMCEW began in January 2011.

Energy Savings Results:

As of July 2011, the municipal, non-profit and commercial portions of the SMCEW program have accomplished approximately 4.02 million kilowatt hours, 721 peak kilowatts of energy savings, and approximately 12,100 Therms of energy saving. In addition, the program's "pipeline" is approximately 898,000 kilowatt hours, 106 kilowatts of energy savings and approximately 18,000 Therms of energy saving projects. A set of charts showing the San Mateo County Energy Watch savings verses goals for the 2010 through 2012 program cycle is attached

for your review with this staff report.

Customers Served:

Since the beginning of 2009, Energy Watch's municipal program has completed energy audits and/or energy-efficiency projects in nearly all the cities and other public agencies in San Mateo County, including Belmont, Brisbane, Burlingame, Colma, Daly City, Foster City, Half Moon Bay, Hillsborough, Menlo Park, Millbrae, Pacifica, Redwood City, San Bruno, San Carlos, San Mateo, SamTrans, South Bayside Waste Management Authority, South San Francisco, Woodside and the County of San Mateo. In addition, Energy Watch has completed projects for a variety of non-profit organizations, including congregations, a food bank, senior housing, and a youth community center, among others.

Types of Projects:

Because of the relatively low cost and fast payback, the majority of our customers get lighting retrofits. Other “direct install” or “turnkey” projects are refrigeration upgrades, vending machine controls, and LED streetlights. In addition, our program has completed boiler and chiller replacements, HVAC upgrades, HVAC controls, lighting controls, IT energy management systems, and pool covers.

New Strategy to Jump-Start City Action on Proposed Energy Efficiency Projects:

Many cities haven't moved forward on more extensive energy efficiency projects (primarily HVAC systems) because of the high cost. Energy Watch has developed a new strategy to compel cities to move forward on energy efficiency projects with longer payback periods and support them in setting benchmarking goals and identifying future energy efficiency projects.

Energy Watch plans to meet with financial decision makers at target cities to present unfunded energy efficiency projects as a smart financial investment meriting immediate action rather than a capital expense that can be put off. Part of the presentation will be to introduce PG&E's new on-bill financing program, which will be available in September. Because the loans have no interest and no fees, with a payback over 10 years, it will allow cities to move forward on projects. (Cities can borrow \$250,000 per meter, \$1,000,000 per site, but the funds can only be used for energy efficiency projects, not solar or demand response.) Energy Watch will also explain how setting goals through Portfolio Manager (online benchmarking tool) can uncover additional opportunities for savings through energy efficiency.

Non-Profit Outreach:

Up until this point, Energy Watch has created non-profit leads through cold calling. Starting in September, Energy Watch will begin making presentations to groups of non-profits. The first presentation will be to Thrive: The Alliance of Non-Profits in San Mateo County on September 22. Energy Watch will also explore partnerships with Peninsula Interfaith Network, United Way, CompassPoint, Sobrato Foundation, Silicon Valley Community Foundation, HIP Housing, and the Housing Leadership Council.

By introducing the Energy Watch program to non-profits via an organization they already trust, more leads should be generated. To generate interest at each presentation, Energy Watch presenters will give away plug load occupancy sensors. These specially designed power strips power down equipment when no one is around, saving an estimated .051 kW and 143 kwh per year per device.

Energy Watch Website Update and Report Cards

While the Energy Watch website continues to receive a steady number of unique visits per month (189 unique visits in June 2011 – the 2nd highest month of the year), we're in process of updating it to make it even more effective in promoting the Energy Watch program. The following improvements will be made:

- *News items on the home page.* This spot is a place to alert the public about upcoming classes, successful projects, special rebates, etc. It will show users that information changes regularly, so they will be more likely to come back to see what is new.
- *Navigation button for "Non-Profits."* In the past, information about non-profits was included under the "Public Agencies" tab. By separating these two entities, non-profits will more readily understand that this program is for them.
- *Addition of Success Stories.* Initially, we will post case studies for two completed energy efficiency projects (Redwood City's Jefferson Garage lighting project and Brisbane's pool cover project). The goal is to add additional case studies, testimonials, and news items every few months.
- *Referral from Residents section.* This section will be updated to point users to the Energy Upgrade San Mateo County website.
- *Expanded listings in Education & Training.* This section has been expanded to include a more extensive list of organizations that provide green training. Since it seems that no other website has an aggregated list of this information, we expect to get more traffic as people learn that the information is available on the Energy Watch website.
- *City-by-city energy use **report cards**.* This new section will give residents, city staff, and elected officials an overview of the trends in their city's energy use. Data is presented in colorful pie charts and line graphs to show the trends and impact of energy consumption in buildings. Information presented includes total building energy consumption, annual greenhouse gas emissions, community-wide building energy consumption, and individual impact. A sample report card will be available for review at the meeting.

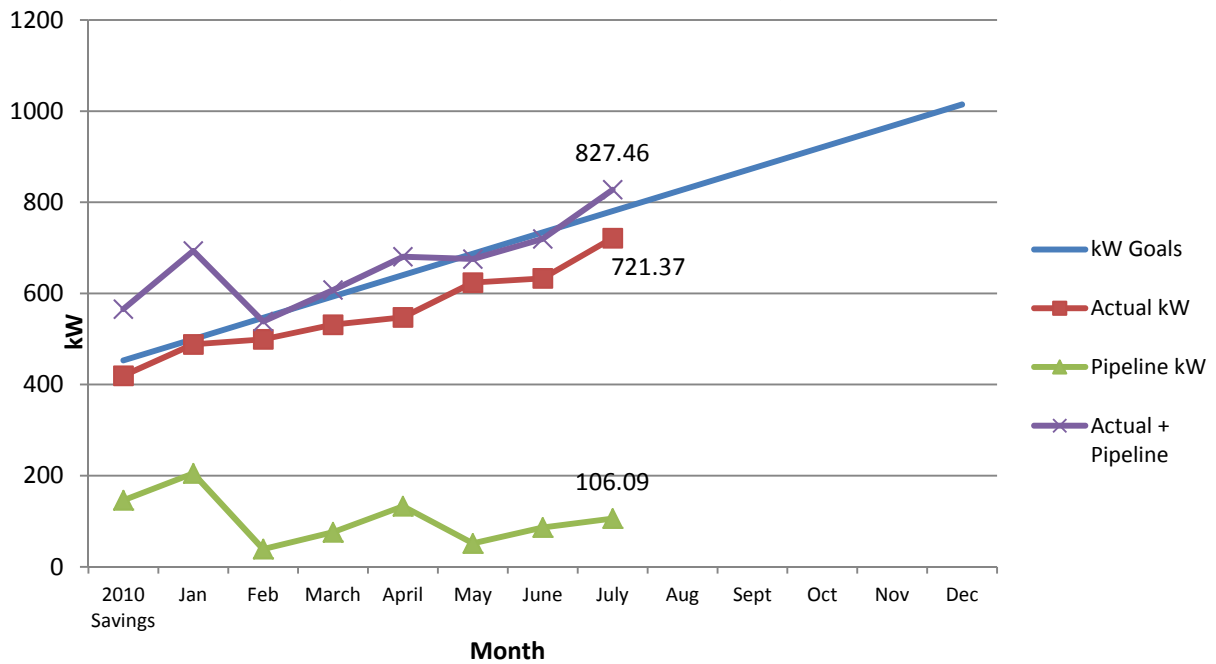
After review by the RMCP committee and PG&E, the updated SMCEW website will go live sometime this fall and will include a section with the report cards.

We would like feedback from the committee on the report card format. **Sample report cards will be provided at the meeting for review.**

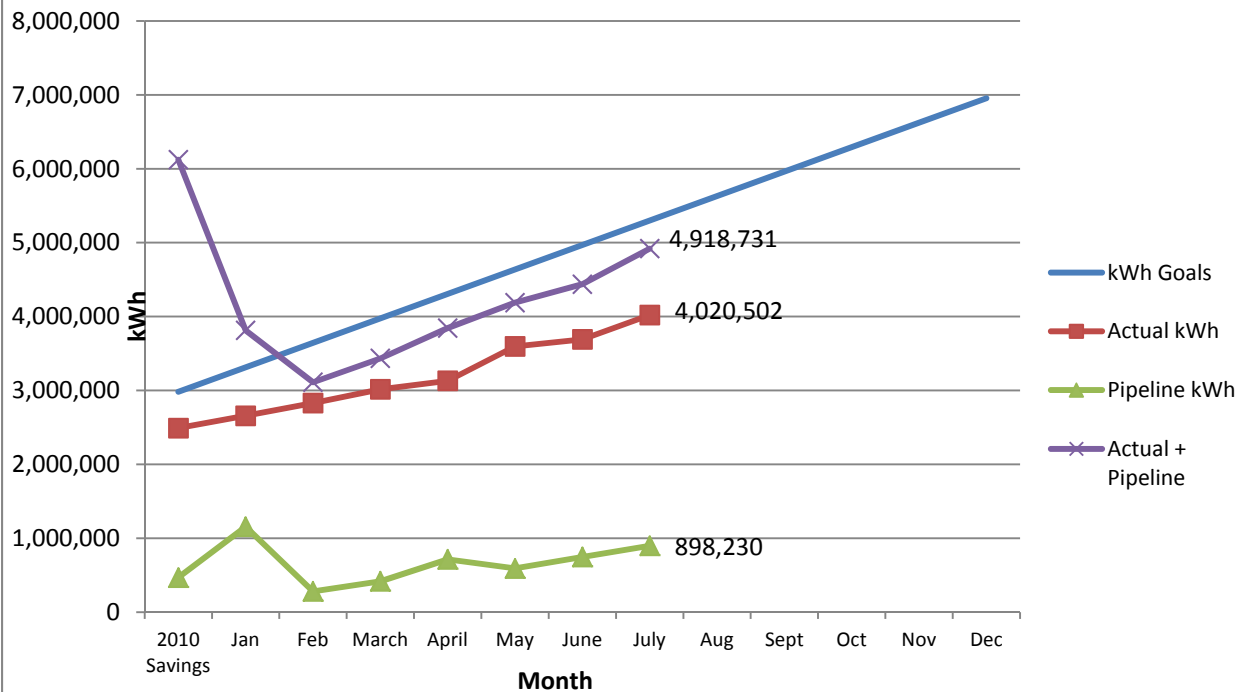
ATTACHMENT

San Mateo County Energy Watch 2010-2012: Energy-Savings Goals vs. Energy-Savings Achieved

San Mateo County Energy Watch 2011 kW Savings Achieved vs. kW Savings Goals

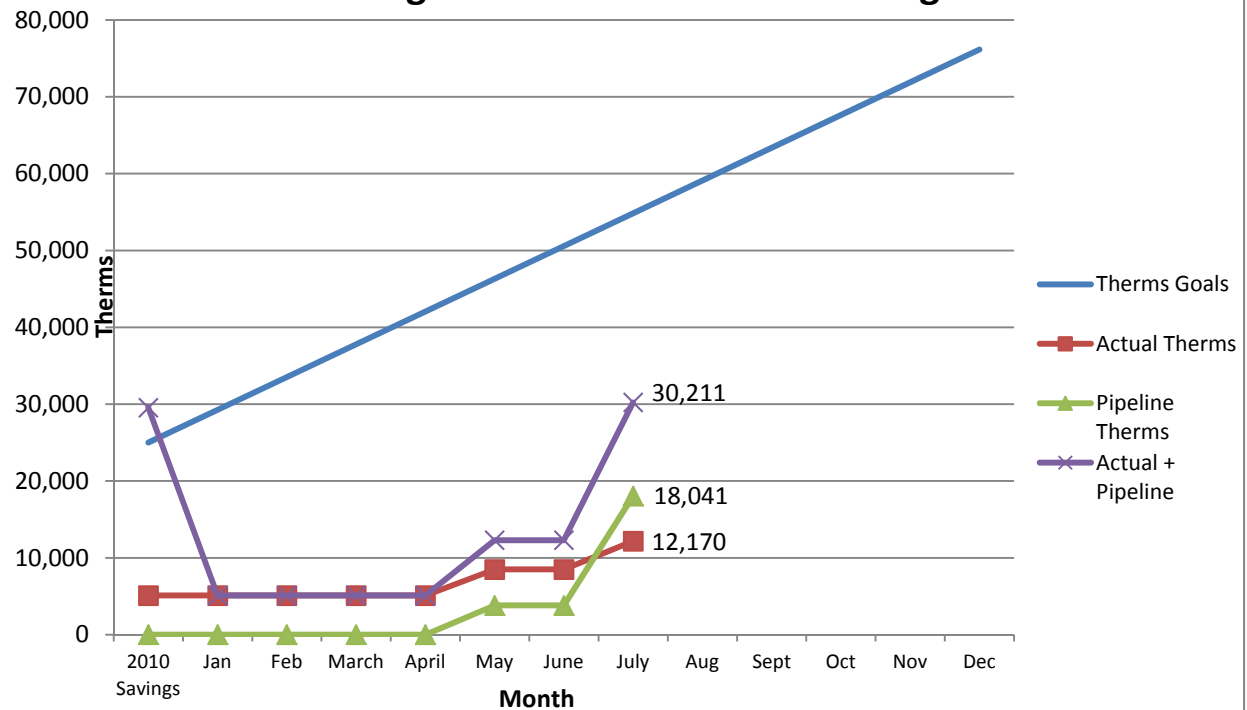


San Mateo County Energy Watch 2011 kWh Savings Achieved vs. kWh Savings Goals



San Mateo County Energy Watch 2011

Therms Savings Achieved vs. Therms Savings Goals



C/CAG AGENDA REPORT

Date: August 18, 2011
To: Resource Management and Climate Protection Committee
From: Kim Springer
Subject: Update on BAAQMD/PG&E Grant - Climate Action Plan Template Project
(For further information, contact Kim Springer at 650-599-1412 or Richard Napier at 650-599-1420)

RECOMMENDATION

Receive an update on the BAAQMD/PG&E grant to develop a Climate Action Plan (CAP) Template and Tool set for the cities in San Mateo County.

FISCAL IMPACT

Up to \$25,000.

SOURCE OF FUNDS

Funding for staff work for the completion of deliverables for the BAAQMD and PG&E grants and further development of funding for this project are paid for by a \$25,000 agreement between C/CAG and the County of San Mateo in FY2011-12, from Congestion Relief Funds.

Additional matching funds for the BAAQMD and PG&E grants are budgeted under Climate Action in FY 2011-12

BACKGROUND/DISCUSSION

On September 16, 2010, the C/CAG Board adopted a Resolution No. 10-53, giving the Chair authority to sign a grant agreement between C/CAG and the BAAQMD for \$50,000 to complete a CAP template project for the cities in San Mateo County and Cupertino. On March 10, 2011, the C/CAG Board adopted Resolution No. 11-11 for a grant agreement between C/CAG and PG&E for \$125,000.

The above grants and matching funds from C/CAG will allow the project to continue through to completion.

The CAP Template project has completed several deliverables and reports since last reporting to the RCMP committee.

- A project time timeline and schedule of deliverables and costs was provided to PG&E on April 30, 2011
- A quarterly report of activities through March 2011 was also provided to PG&E on April 30, 2011
- The completed draft CAP Template document and draft measures list with calculations was provided to the BAAQMD on June 29 for their comments

- A completed set of CAP Template software tool specifications and copy RFP posted to the C/CAG website were provided to PG&E on June 30
- A quarterly report for activities completed from April 2011 through June 2011 was provided to PG&E on July 29.

Staff will provide further updates on progress on the CAP Template project at the meeting.

Please use this link to see the CAP Template Document:

http://www.ccag.ca.gov/ustf_task_force_reports.html

Attachment

None

C/CAG AGENDA REPORT

Date: August 18, 2011
To: Resource Management and Climate Protection Committee
From: Kim Springer
Subject: Review of a Draft Outline for San Mateo County Energy Strategy Update, Final Sections.

(For further information, contact Kim Springer at 650-599-1412)

RECOMMENDATION

That the Committee gives direction to staff on a draft outline for San Mateo County Energy Strategy update.

FISCAL IMPACT None.

SOURCE OF FUNDS

C/CAG General Funds will fund the cost of writing the follow-up report to the Energy Strategy through a staff services agreement between C/CAG and the County of San Mateo.

BACKGROUND/DISCUSSION

In RMCP meetings at the end of last calendar year, the committee reviewed the various sections of the existing San Mateo County Energy Strategy (Strategy) document, which was adopted by every city in San Mateo County before the end of November 2009.

Staff and the RMCP committee completed a portion (through the Energy and Water and Collaboration sections) of the draft outline review at the May 19 meeting. At this meeting, staff hopes to complete the outline review process (the remaining sections: Leadership and Economics) so that writing of the update the San Mateo County Energy Strategy can begin.

At the May 19, 2011 meeting, adding Transportation to the Strategy was discussed and may be presented to the CMEW committee in September.

A draft of the outline is attached for your review and for discussion at the meeting.

Attachment

Draft Outline of the San Mateo County Energy Strategy Update.

San Mateo County Energy Strategy Update 2011 Outline

I. Note from C/CAG ED or RMCP

II. Acknowledgements

III. Introduction

A. Original Energy Strategy

1. History, Dates
2. Stakeholders
3. City Adoption and Input/Feedback

B. Energy Strategy Update

1. Process
2. SMC Energy Strategy as base document
3. Intention (why)
4. Coordination – Consistency
 - a. SSMC
 - b. PG&E Data
 - c. BAWSCA
 - d. SAMCEDA

C. Awareness Change

1. Community Green Teams
2. Greater Staff involvement
3. C/CAG Efforts

IV. Energy, Water Resources, GHG Emissions (SB 375 Sustainable Community Strategy (SCS))

A. Relationships between (brief)

1. Need for Greater Coordination
 - a. Energy
 - b. Water
 - c. Land Use
 - d. Transportation
 - e. Housing
 - i. Any city that has increased housing and reduced energy use?)

B. Accomplishments (since last SMCE Strategy)

1. Efforts completed

- a. BAAQMD/CCAG GHG Inventories 2005
 - ii Gov Ops
 - iii Community Scale
 - b. Adoption of Energy Strategy
 - c. Volunteer staff
- 2. Ongoing efforts
 - a. CAP Template
 - iv CAP Template Grants (BAAQMD/PG&E/CCAG)
 - b. SMCEW
 - v Savings
 - c. Energy Upgrade California
 - vi Target savings
 - d. BAWSCA programs
 - vii Conservation successes
 - viii Studies

V. Energy

A. Current Goal

- 1. Based on AB 32 and Contributing Factors
 - a. Population Growth
 - b. Energy Efficiency Program
 - ix SMCEW
 - x Energy Upgrade California

B. Previous Goal Review

- 1. Reasoning for Stated Goal
 - a. Time (era) Context (how acceptance has grown, etc.)
- 2. Feedback from Cities
 - a. Need for end date?

C. CPUC's Long Term Strategic Plan (touch on all the following but refer to document)

- a. Zero Net Energy Goals
 - xi Residential
 - xii Commercial
- b. Tying Energy Efficiency to GHG Reduction Goals
- c. Improved Code Compliance
- d. Code Enhancement (reach codes)
- e. Demand Side Management
- f. Workforce education and training
- g. Technology Innovation
- h. Government Leadership
 - xiii Authority

xiv Lead by Example

xv Community Leadership

D. Energy/GHG Emission Statistics from 2000-2009

1. Energy trends

a. County as a Whole

b. City by City

2. Energy related GHG emission trends

a. Why such varied Emissions Results from Energy

xvi Energy mix

➤ Weather/Snow Pack induced

E. New Technologies and Trends

1. Technologies

a. SMART Meters

xvii Opportunities to leverage

xviii Google Partners

b. Lighting

c. Heating

d. Boilers

e. EVs

2. Trends

a. Funding CalFirst, AB811, etc.

b. Building Ordinances

VI. Water

A. Same Goal (unchanged)

1. Justification for keeping it the same

B. Previous Goal

1. Feedback from cities?

C. SFPUC details

1. Allocations

2. Future Allocation

D. BAWSCA Studies

E. Water Statistics from 2000-2009

1. Water trends

a. County as a Whole

b. City by City

F. New Technologies and Trends

1. Fixtures

2. Lawn be Gone

3. Grey Water

4. Black Water
5. Smart meters in Hillsborough
6. Recycling of flushing water at hydrants

VII. Collaboration

- A. New Goal (include coordination of resource programs)
 1. Local
 - a. Utilities-Cities
 2. Countywide
 - a. Between cities, C/CAG, Countywide programs
 3. Regional
 - a. SCS and other regional programs
 4. State
 - a. State program: SEEC, LGC, etc.
- B. Old Goal
 1. What changed
 2. Feedback from cities?

VIII. Economic Opportunities

- A. Same Goal (unchanged)
- B. Feedback from cities?
- C. SAMCEDA Efforts
- D. Energy Upgrade
- E. ARRA Funding
- F. Financial Models
 1. Revolving Loan Funds
 2. Bundling projects/modified internal rate of return

IX. Leadership

- A. Same Goal (unchanged)
- B. Feedback from cities?
- C. Green Teams
- D. Training
 1. SMCEW
 2. PG&E

X. Ending?